25772 - PRINT 11/18/03 8:20 AM Page 1

BABY EAGLE PISTOL

SEMI-AUTOMATIC PISTOL™ DOUBLE ACTION

9mm Para./.45 ACP/.40 S&W

ISRAEL MILITARY INDUSTRIES LTD (IMI)
MAGNUM RESEARCH, INC.

INSTRUCTION MANUAL

25772 - PRINT 11/18/03 8:20 AM Page 2

WARNING

ALL FIREARMS ARE DANGEROUS OBJECTS - PISTOLS INCLUDED.

ALWAYS CONSIDER THE PISTOL LOADED. TO RENDER IT SAFE, FIRST SET THE SAFETY ON THE "SAFE" POSITION; REMOVE THE MAGAZINE, THEN EJECT ANY REMAINING ROUND BY PULLING THE SLIDE TO THE REAR.

IT IS DANGEROUS TO ALTER OR MODIFY THIS FIREARM IN ANY WAY. ANY ALTERATIONS OR MODIFICATIONS OF THE FIRING MECHANISM MAY RESULT IN THIS FIREARM BECOMING UNSAFE, AND WILL NULLIFY ALL WARRANTIES.

USER IS ADVISED TO READ THE ENTIRE MANUAL PRIOR TO HANDLING THIS PISTOL AND OPERATING IT FOR THE FIRST TIME.

25772 - PRINT 11/18/03 8:20 AM Page 4

Table of Contents

1. Preface 4
2. Caution 5
3. Safety precautions 6
4. General description and characteristics 7
5. Technical data 8
6. Operating principles 9
7. Operating instructions 10
8. Sights and zeroing 14
9. Loading and firing 15
10. Disassembly and assembly 19
11. Care and cleaning 26

PREFACE

Welcome to the proud family of DESERT EAGLE PISTOL owners. This instruction manual refers to DESERT EAGLE PISTOL pistols in:

- 9mm parabellum (9x19)
- .45 ACP
- .40 S&W

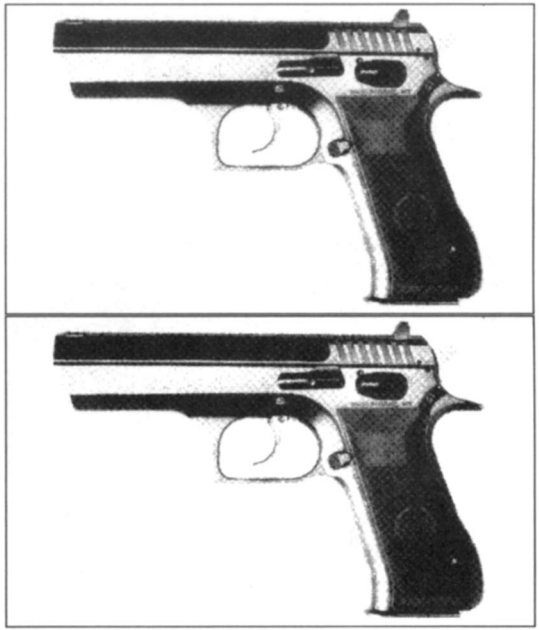
Care and handling are the same for all calibers. They share many parts in common as well.

ATTENTION

The Operating instructions in this manual refer to the DESERT EAGLE R model pistol (slide-mounted de-cocking safety)

The explanations **specific** to the Desert Eagle F & FS models (frame-mounted safety) are given at the end of this manual (page 29).

Care and maintenance are identical for all Desert Eagle pistols. Furthermore, most parts are common to all models.



25772 - PRINT 11/18/03 8:20 AM Page 6

CAUTION

Failure to heed the **warnings** in this booklet may result in serious injury to you or others, as well as damage to the firearm or other property. Take note of the following **warnings** on the gun handling before attempting to use the pistol:

- Always check the chamber and magazine of any firearm before handling.
- Never load or carry a loaded gun until you are ready to use it.
- Watch your muzzle so the other fellow doesn't have to.
- Keep guns and ammunition separate and in locked storage.
- Don't shoot unless absolutely sure of your target and what is beyond it.
- Know the range of your gun.
- Always wear eye and ear protection when shooting.
- Always be sure the barrel is clear of obstructions and only carry ammunition specifically intended for the gun you are using.
- Never use alcohol or drugs of any kind while using your firearm.
- Always store your firearm in a safe and responsible manner to prevent unauthorized use. Cable locks are provided with all firearms sold by Magnum Research, Inc.

25772 - PRINT 11/18/03 8:20 AM Page 7

SAFETY PRECAUTIONS

Make sure that the pistol is unloaded and in the "SAFE" position before:

- Receiving or handling over a pistol.
- Transporting a pistol.
- Cleaning or servicing a pistol.

Immediately after firing, set the safety on the "SAFE" position, remove the magazine and make sure the chamber is empty.

Make sure that the safety is in the "SAFE" position when:

- Inserting the magazine.
- You have stopped firing.
- Transporting or moving the pistol.
- The pistol is not in use.

When handling the pistol:

- Never point it at anyone.
- Always make sure that the barrel points in a safe direction.
- Always assume that the pistol is locked.
- Practice handling the pistol **empty**.
- The DESERT EAGLE PISTOL may be dry fired without harm to the pistol's mechanism. Never load a pistol until you are ready to use it.

Before firing the pistol:

- Wear ear and eye protection.
- Always be sure of your target backstop and what lies beyond it.
- Make sure that the barrel, the magazine, the springs assembly, and ammunition are of the same caliber.

25772 - PRINT 11/18/03 8:20 AM Page 8

GENERAL DESCRIPTION AND CHARACTERISTICS

The DESERT EAGLE PISTOL by I.M.I. is a semi-automatic magazine-fed, double-action pistol. The safety of the DESERT EAGLE PISTOL locks the firing pin, decock the hammer and also disconnects the trigger from the mechanism.

In addition to the high accuracy of the polygonal rifled barrels and low recoil, the DESERT EAGLE PISTOL offers the convenience of firing standard 9mm Parabellum (9 x 19), .40 S&W and .45 ACP in pistols with these caliber designations.

The anatomically formed grip dimensions permit rapid, accurate, instinctive shooting. The combat style trigger guard is designed for two-handed shooting.

SLIDE-MOUNTED SAFETY

An easily operated slide-mounted thumb safety and deep-groove serrated slide grip are designed for positive operation.

FRAME-MOUNTED SAFETY

The models FS and F employ a frame-mounted safety. This safety disconnects the trigger bar from the sear while in the safe position. There is a firing pin block.

TECHNICAL DATA

Common features:

- Black, slide safety, decocker
- Double action/Single Action
- Width 1 1/8″
- Full size grip 3 3/4″ and Short grip 3 1/4″
- Magazine capacity 10-rounds
- Polygonal rifling reduces barrel ware and enhance the contact between bullet and the bore.

Specific features to models:

Standard Models (MR9900/MR9400) Steel, Full-Size Grip

- Barrel length 4.72″
- Weight w/empty magazine 2 lbs. 6.6 oz. (9mm) 2 lbs. 5.9 oz. (.40 S&W)
- Overall length 8 1/4″
- Height 5 3/4″

Semi-Compact Models (MR9900RS/MR9400RS/ MR4500RS) Steel, Full-Size Grip

- Barrel length 3.7″
- Weight w/empty magazine 2 lbs. 4.1 oz. (9mm) 2 lbs. 4.1 oz. (.40 S&W) 2 lbs. 7.8 oz. (.45 ACP)
- Overall length 7 3/4″
- Height 5 3/4″

Compact Models (MR9900RB/MR9400RB) Steel, Short Grip

- Barrel length 3.5″
- Weight w/empty magazine 2 lbs. 2 oz. (9mm) 2 lbs. .7 oz. (.40 S&W)
- Overall length 7 1/4″
- Height 5″

Compact Polymer Models (MR9900BL/MR9400BL)

- Weight w/empty magazine 1 lb .7 oz. (9mm) 1 lb. 9.6 oz (.40S&W)
- Barrel length 3 1/2″
- Short Grip 3 1/4″
- Overall length 7 1/4″
- Height 5″

25772 - PRINT 11/18/03 8:20 AM Page 10

OPERATING PRINCIPLES

RETRACTION MOVEMENT

Prior to firing the pistol, the barrel is locked in position by three lugs engaged in three slots in the slide assembly. Upon firing the pistol, propellant gas pressure pushes the slide rearward. During this movement, both barrel and slide recoil together a short distance, then the barrel stops and disengages from the slide; the slide continues its rearward travel. When the bullet has left the barrel, the empty cartridge case is extracted and ejected with the continuing movement of the slide to the rear. At the same time, the slide pushes the hammer down into the cocked position, where it is retained by the sear. The recoil springs are now compressed.

FORWARD MOVEMENT

When the recoil springs expand, they drive the slide forward. During this movement the slide strips a cartride from the magazine and inserts it into the chamber. The locking lugs on the barrel once again engage the slots in the slide and lock the cartridge in the chamber.

CONTINUED FIRING

When the trigger is pulled, the sear releases the hammer which in turn hits the firing pin thus firing the chambered cartridge. Firing may be continued in this manner until the magazine is empty. When the last cartridge is fired and the empty case is ejected the slide is retained in its rear position by the slide catch. The slide is actuated by the magazine follower. The slide catch will release the slide when depressed by hand.

SAFETY FEATURES

The safety is located at the back of the slide, just below the rear sight. Pushing the safety downward will engage the safety. In this position the sear is held down by the firing pin safety and the trigger bar, which is pushed downward and cannot engage the interrupter thus neutralizing the trigger. The safety is also a decocking device which pulls the firing pin inside the firing pin channel before the hammeris released, preventing any contact between them. Due to the unique blocking of the firing pin by the safety, the pistol will not fire when dropped accidentally on its hammer or muzzle.

OPERATING INSTRUCTIONS

OPERATING THE PISTOL

1. Move the safety down into the "SAFE" position (Fig. 1): a white dot will be visible.
2. Press the magazine release button on the left hand side of the pistol (Fig. 2), and remove the magazine.
3. Draw the slide to the rear, and check the chamber visually to ensure that the pistol is unloaded. (Fig. 3): Release the slide.
4. Move the safety lever up into the "FIRE" position (Fig. 4): a red dot will be visible.
5. Point the pistol in a safe direction and pull the trigger (Fig. 5).

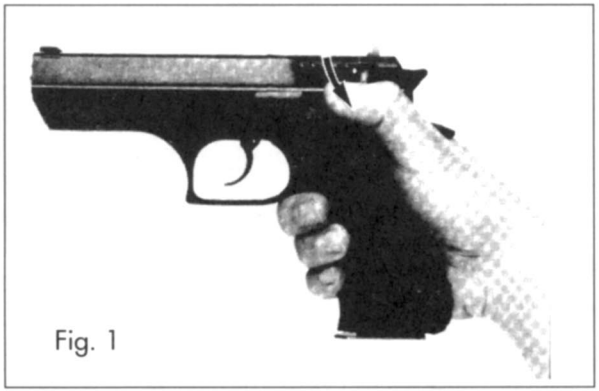


Fig. 1

Fig. 2

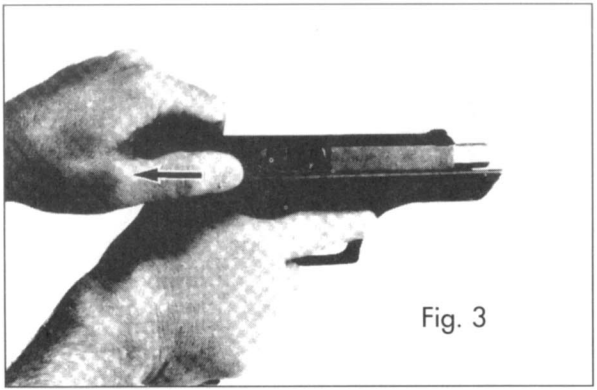


Fig. 3

6. Cock the pistol again and then release the hammer by moving the safety down to "SAFE" position (decocking test).
7. Point the pistol a safe direction, and check that the trigger is neutralized.
8. Move the safety up to the "FIRE" position and then pull the trigger, checking the double-action mechanism.

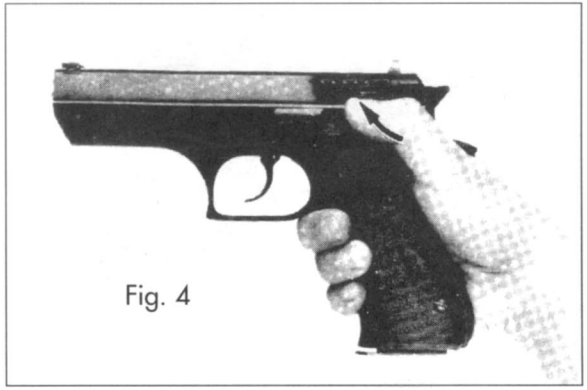


Fig. 4

9. Move the safety down to the "SAFE" position.

WARNING:

The DESERT EAGLE PISTOL can be fired with magazine removed & a round in chamber. Always clear chamber when unloading pistol.

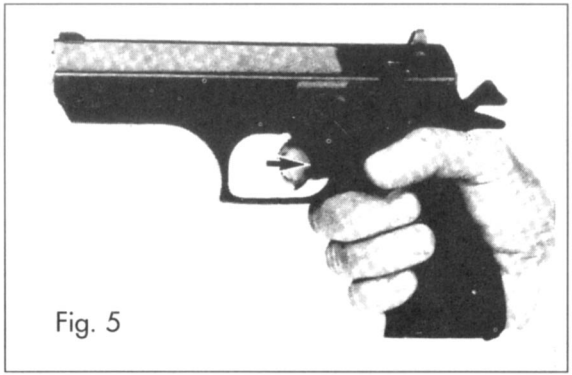


Fig. 5

AMMUNITION WARNING

Use only original, high quality, commercially manufactured ammunition which is in good condition. Only use ammunition of the caliber for which your pistol is chambered. You will find the correct caliber engraved on the side of the firearm. Never use ammunition of any other caliber. You should always use ammunition that complies with performance standards established by The Sporting Arms and Ammunition Manufacturers' Institute, Inc. The use of hand-loaded or other non-standard ammunition will void all warranties.

FILLING THE MAGAZINE

1. With the magazine in an upright position, place a catridge on the magazine follower, in front of the magazine lips.
2. Press the cartridge down and slide it under the magazine lips, push the cartidges all the way to the rear of the magazine (Fig 6).
3. Repeat the process until fully loaded.

NOTE: The number of cartridges in the magazine can be verified by the indicator holes (Fig 7) in both sides of the magazine.

CAUTION

Damaged or bent magazine lips will cause a malfunction. ***Do not force Cartridges.***

25772 - PRINT 11/18/03 8:20 AM Page 14

Fig. 6

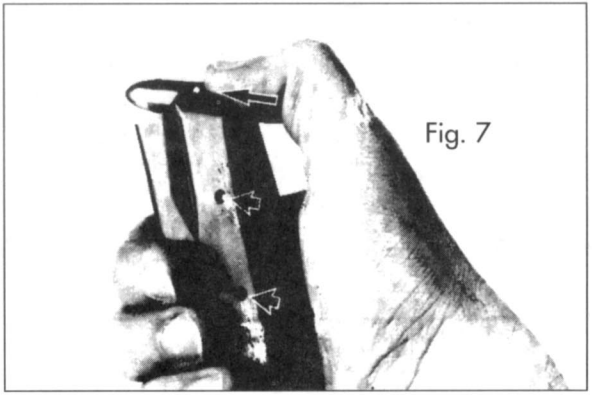


Fig. 7

EMPTYING THE MAGAZINE

1. Push the cartridges forward with your thumb until they are out from under the magazine lips.
2. Repeat until the magazine is empty (Fig. 7).

25772 - PRINT 11/18/03 8:20 AM Page 15

SIGHTS AND ZEROING

Standard DESERT EAGLE PISTOL sights consist of a front and rear sight. Both are combat style, and are designed to ensure rapid and accuarate aiming. The square notch on the rear sight is 3mm wide and the front sight blade is 3.3mm wide. The sight line radius is 150mm.

The single-caliber pistol is supplied with combat-style front and rear sights.

The DESERT EAGLE PISTOL is factory zeroed at 25 meters. Due to individual eyesight variations, the actual mean point of impact (M.P.I.) may vary. Zeroing can be changed on combat style sights for windage only. To adjust the sights:

1. Use a small hammer and a brass punch to lightly tap the sight on the side. (Moving the rear sight to the left will move the point of impact to the left).
2. Adjustments to the sights in this manner should only be performed by a competent gunsmith.

LOADING AND FIRING

PRE-LOADING AND PRE-FIRING CHECKS

1. Perform the safety checks listed on page 10 (para. 1-4) to ensure that the pistol is not loaded.
2. Make sure that the barrel is clean and dry (all factory packing grease shouold be removed from all surfaces before firing the pistol for the first time).
3. Check that the magazines are clean and properly loaded.
4. Check that barrel, recoil spring assembly and magazine are for the same caliber:
   Barrel - stamped either 9x19 or .40 S&W
   Recoil spring assembly rod - 9mm is blued; .40 S&W plated (Fig. 9).
   Magazine - Stamped .40 S&W. 9mm is not marked.
5. Always wear ear and eye protection when firing the pistol.

COCKING THE PISTOL

1. Never chamber a round unless you are ready to fire.
2. Verify that safety is on "SAFE" position.
3. Insert the magazine into the pistol (Fig 10).
4. Grasp the slide, pull it all the way back and release it (Fig 11). This operation chambers a cartridge.

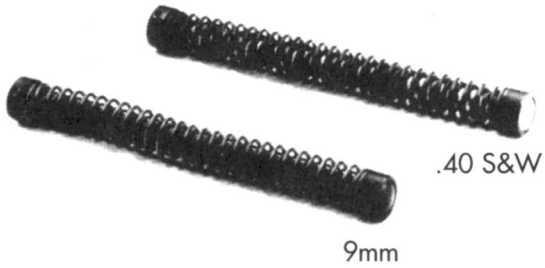


Fig. 9

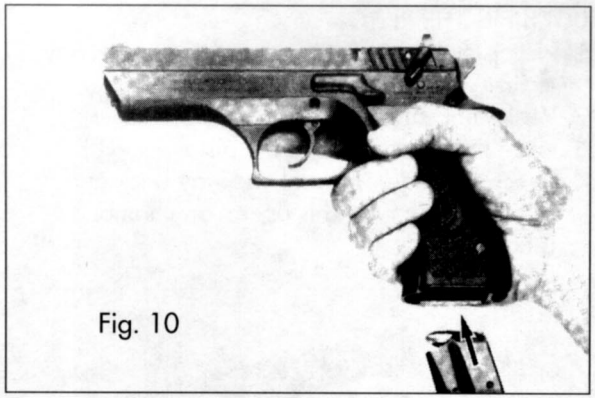


Fig. 10

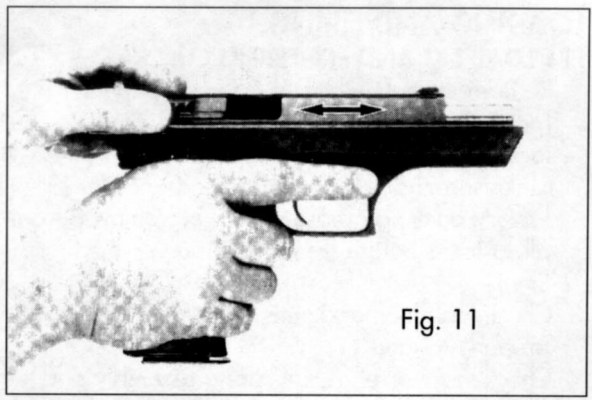


Fig. 11

WARNING

- *The pistol is now loaded - make sure that the barrel is pointed in a safe direction.*
- *Keep your index or trigger finger out of the trigger guard while cocking.*
- *If pistol is cocked when safety is in "FIRE" position, hammer will remain cocked.*

FIRING THE PISTOL

1. With the pistol pointed at the target, move the safety to the "FIRE" position (RED dot will be visible).
2. AIM and pull the trigger.

RELOADING DURING FIRING

the slide will remain in the rear position after the

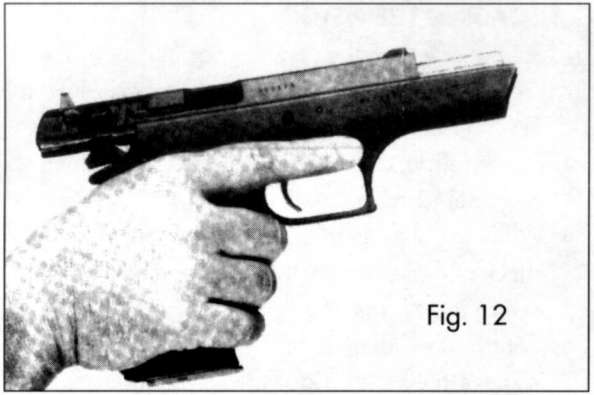


Fig. 12

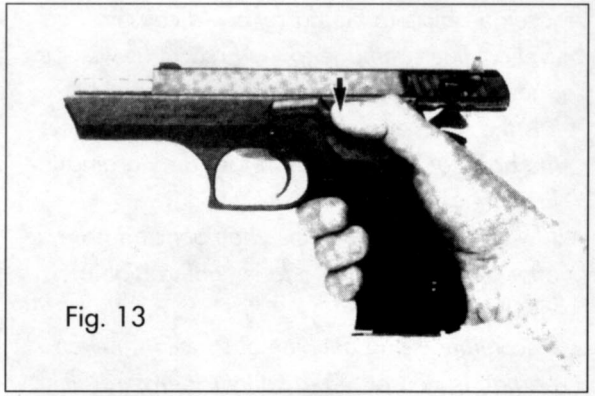


Fig. 13

last cartridge is ejected and the magazine is empty (Fig. 12)

1. Remove the empty magazine.
2. Insert a full magazine.
3. Release the slide by depressing the slide catch lever (Fig. 13) or by pulling the slide slightly to the rear and releasing it.

WARNING

The pistol is now loaded and cocked with the safety in the "FIRE" position.

OBSTRUCTION WARNING

- *Always clean all grease and oil from the chamber and the bore before loading.*
- *Be sure there is no obstruction in the barrel.*

A foreign object in the barrel could cause a burst barrel or other damage to the firearm as well as serious injury to the shooter or to others.

- *It is the sole responsibility of the user to check the bore for obstructions before discharging the firearm.*
- *Always visually check the chamber and bore after a misfire or any odd sounding high or low report.*
- *Discontinue firing until the obstruction, full or partial, is cleared. "Warranty Claims" resulting from an uncleared obstruction will not be covered by the warranty.*
- *Always wear shooting glasses.*

UNLOADING THE PISTOL

1. Set the safety in the "SAFE" position.
2. Press the magazine release button and remove the magazine.
3. Pull the slide to the rear and eject any chambered cartridge.
4. While the slide is in the rear position, visually check to make certain that the chamber is empty.
5. Return the slide to the forward position.
6. Confirm the safety is in the "SAFE" position.
7. Remove all the cartridges fro mthe magazine (see Filling and Emptying the Magazine).
8. Replace te empty magazine in the pistol.

WARNING

The DESERT EAGLE PISTOL can be fired with magazine removed & a round in chamber. Always clear chamber when unloading pistol.

DISASSEMBLE AND ASSEMBLY

GENERAL

This chapter deals with those disassembly and assembly operations which the user should carry out for routine maintenance of the pistol.
Disassembling or assembling of any other parts is not recommended and will void all warranties.
Disassembly should be carried out on a clean surface.
All the disassembled parts should be placed in order of their removal.

CAUTION

Carry out the following operations before disassembling:

1. *Remove the magazine (Fig 3).*
2. *Draw back the slide several times (without pulling the trigger) to ensure that there are no live cartridges in the chamber.*
3. *Check the chamber visually to make sure that it is empty (Fig 4).*
4. *Move the safety to the "FIRE" position (Fig 2).*

DISASSEMBLING THE PISTOL

1. With the pistol completely unloaded, and safety in the "FIRE" position, manually move the hammer to the cocked position (Fig 14).

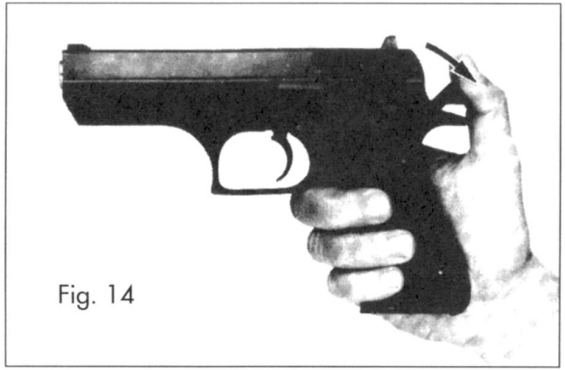


Fig. 14

2. Push the slide slightly to the rear until the mark behind the safety is just above the mark on the frame (Fig. 15).
3. While holding the pistol in that position, remove

Fig. 15

the slide catch lever by pushing in on the pin of the lever on the opposite side of the frame (Fig. 16).

4. Pull the slide from the frame (Fig. 17).

5. Remove the recoil spring assembly from its housing under the barrel (Fig. 18).

6. Remove the barrel from the slide (Fig. 19).

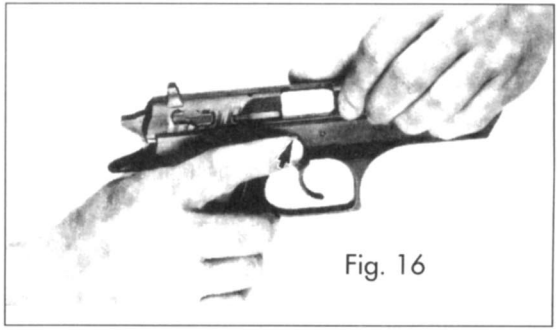


Fig. 16

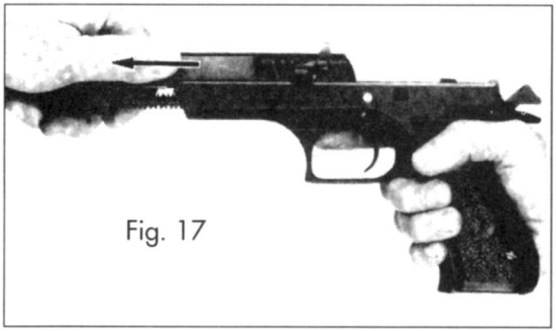


Fig. 17

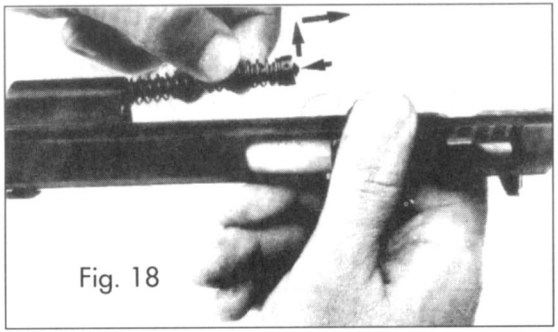


Fig. 18

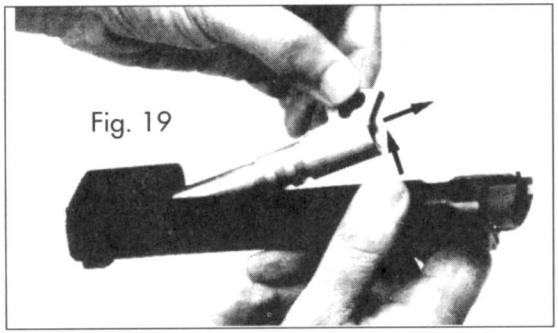


Fig. 19

WARNING

No further disassembly is required or advised for routine maintenance. See par. GENERAL.

ASSEMBLING THE PISTOL

1. Insert the barrel into the slide in its rearmost (locked) position (Fig 20).

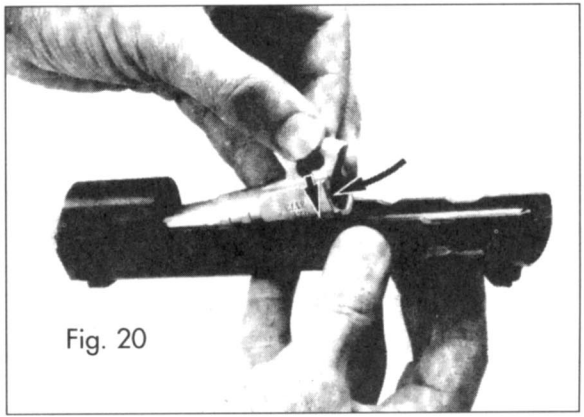


Fig. 20

2. Insert the recoil spring assembly, making sure that it is securely fitted into the recess in the bottom lug of the barrel (Fig 21). the cone-shaped end of the recoil spring assembly fits into the barrel lug.
3. Manually move the hammer to the cocked position.
4. Mount the slide on the frame (Fig. 22) and push it to the rear until the marks are in line, one above the other, then insert the slide catch pin until it snaps into place.
5. Check correct pistol operation by cocking it.
6. Check trigger and hammer operation and verify that safety is functioning proerly and safely.

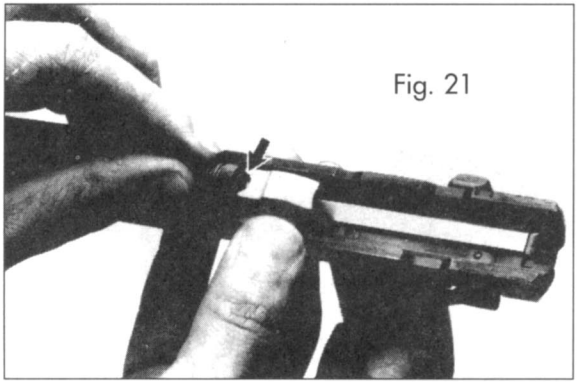


Fig. 21

Fig. 22

25772 - PRINT 11/18/03 8:20 AM Page 24

-WEAR SAFETY GLASSES-

DISASSEMBLING THE MAGAZINE

1. Before disassembly, remove all cartridges from the magazine.
2. Hold the magazine with the base facing upward.
3. With the aid of a small pointed object, push the base catch button inward (Fig. 25).
4. With the catch depressed, carefully slide the magazine base backwards (Fig. 26) while maintaining pressure on the base.

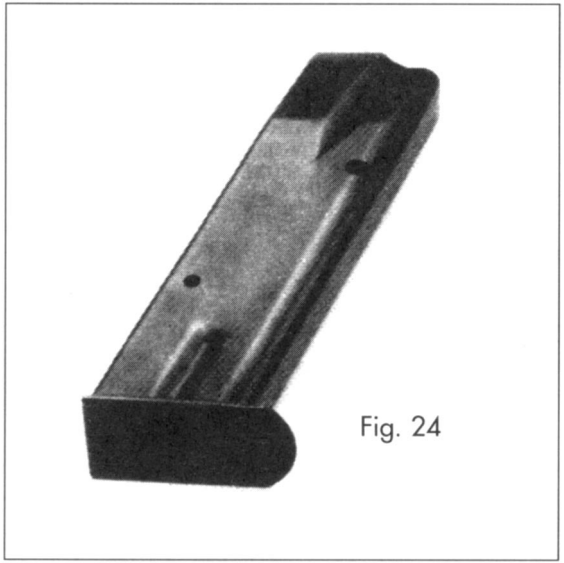
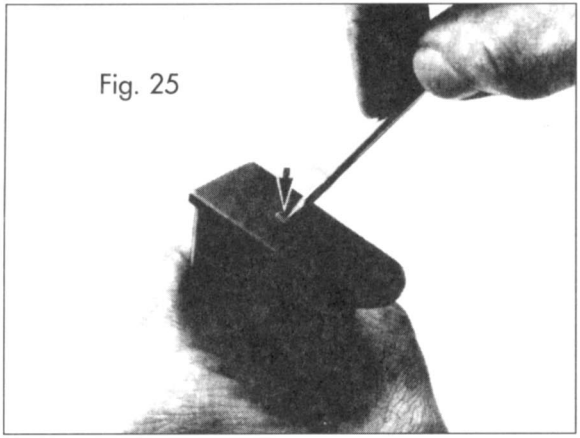
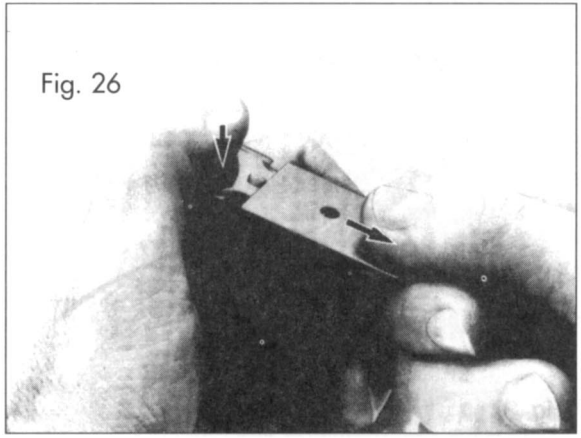


Fig. 24



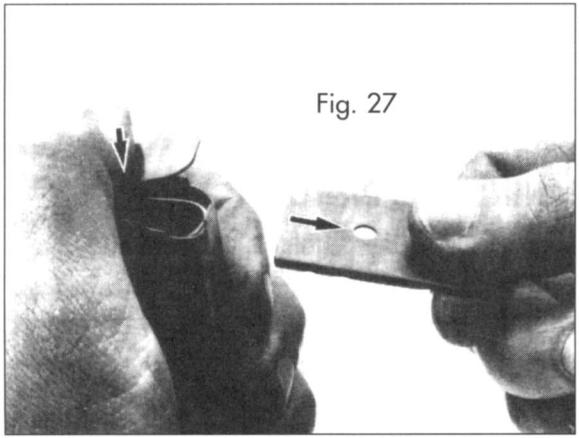


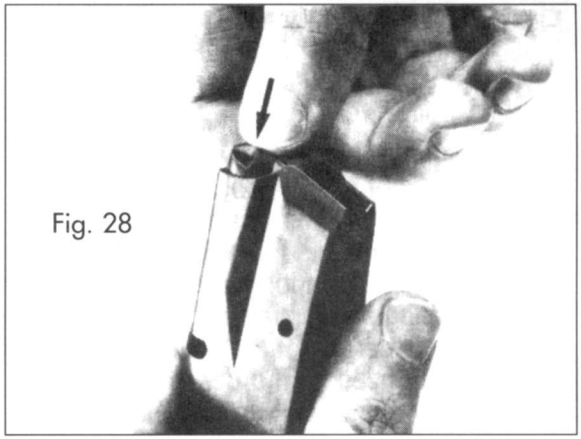
5. Carefully holding spring in place with the thumb, remove magazine base (with other hand) (Fig. 27).
6. Remove the magazine base catch and spring.
7. Press the follower plunger in and slide it through the base opening of the magazine (Fig. 28).

WARNING

The magazine spring is under pressure and may be released accidentally, causing injury if not held in place during disassembly or assembly. Do not point the magazine base toward your face or another person.

25772 - PRINT 11/18/03 8:20 AM Page 26





ASSEMBLING THE MAGAZINE

To assemble the magazine perform the above steps in reverse order.

NOTE: We do not recommend further disassembly of this pistol. Any other maintenance or repairs must be performed by a factory warranty repair station. Any work done by others or an unqualified gunsmith will void the warranty.

25772 - PRINT 11/18/03 8:20 AM Page 27

CARE AND CLEANING

GENERAL

Comprehensive knowledge of how to service and handle the pistol is of great importance. Experience has shown that most failures which occur while operating the pistol are due to negligence in maintenance. Special attention must be paid to cleaning, lubricating and inspecting the pistol; this will determine whether or not the pistol functions properly when you need it. In order to maintain accuracy, the barrel must be serviced thoroughly. The slide and other moving parts of the pistol must be kept clean and lightly lubricated to ensure proper operation. Care and cleaning included the magazines, which must be kept free from rust, grit, etc., in order to function properly.

CLEANING THE PISTOL

1.Upon receiving the pistol, disassemble and inspect it (see page 19, Disassembly).

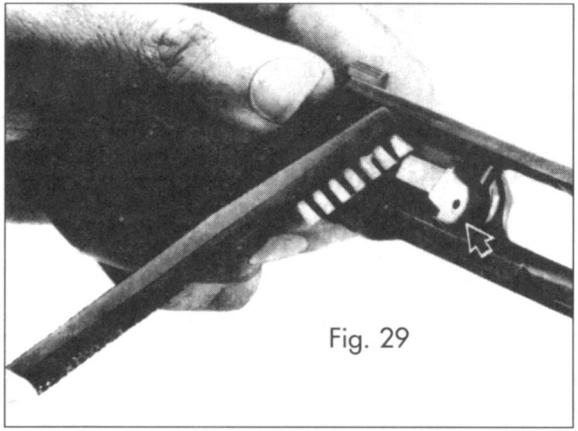


Fig. 29

25772 - PRINT 11/18/03 8:20 AM Page 28

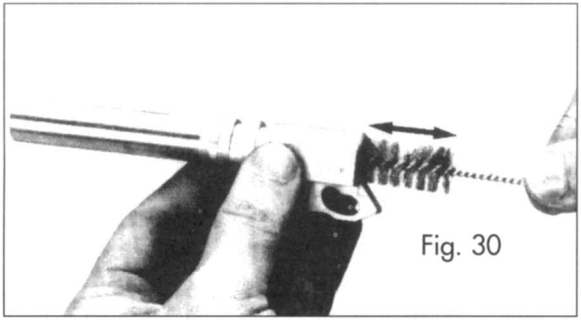


Fig. 30

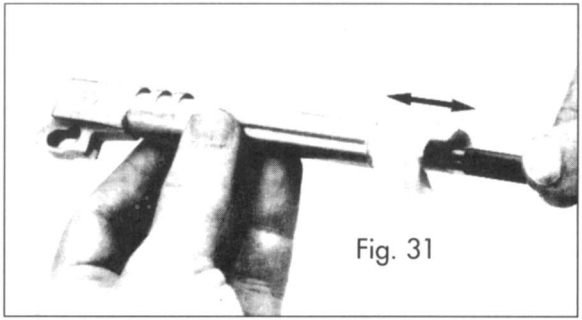


Fig. 31

2. Clean the pistol regularly to ensure it functions properly when needed.
3. For the initial cleaning, make certain that any heavy or sticky deposits of protective material are removed. To do so, use a very light rust-preventative oil to remove the coating.
4. When cleaning the slide, pay particular attention to the area around the extractor and firing pin, making certain that all powder residue is removed (Fig. 29) A small brush, swabs and solvent should be used to remove dirt from hard to reach areas. (Fig. 29).
5. To clean the barrel, use the brass wire brush. Run the brush completely through the chamber and bore until it protrudes from the other end of the barrel.
6. Pull the brush in the opposite direction and remove it from the barrel (Fig. 30). Repeat this operation several times.
7. Use a patch moistened with powder solvent and clean the bore (Fig. 31). Repeat this operation using clean, dry patches.

25772 - PRINT 11/18/03 8:20 AM Page 29

8. Oil the chamber, bore and all moving parts of the pistol with a lightly oiled patch/cloth, then remove all excess oil with a dry one.
9. While cleaning, inspect all parts for wear and damage; make sure all surfaces are free from rust.
10. Assemble the pistol and make sure it functions properly.
11. Never use abrasive or metallic objects, synthetic cloth, dry cleaning fliuds, detergents, acids, lyes, water or steam for cleaning.

25772 - PRINT 11/18/03 8:20 AM Page 30

DESERT EAGLE PISTOL

(Frame-mounted safety) MODELS F, FS & FSS

This supplement refers to the following pistols:

F & FS 9mm Para (Luger) - single caliber

F & FS .40 S&W - single caliber

The priciple differences distinguishing the F & FS from the slide-mounted safety are:

- Frame-mounted safety, left side only
- In "FIRE" position, the safety lever points down (parallel to the slide - red dot visible)
- In "SAFE" position, the safety lever points up Hammer cannot be decocked.
- Firing pin remains blocked until trigger is pulled.
- In "SAFE" position, pistol can be cocked only if hammer is cocked!

Apart from these differences, operation and maintenance of the two pistol types are identical. The differences between the pistol parts are listed on page 32.

ATTENTION

Note that "FIRE" and "SAFE" positions in the F & FS are not the same as in the slide-mounted safety. In the F & FS there are no white dots in the "SAFE" position.

IMPORTANT NOTE

MODELS F, FS & FSS FRAME-MOUNTED SAFETY

The models Fs and F employ a frame-mounted safety. This safety disconnects the trigger bar from the sear while in the safe position. There is a firing pin block.

After firing, the safety may be placed in the safe position with the hammer cocked or the hammer must be manually lowered by restraining hammer with thumb and disengaging sear by pulling trigger and then moving safety to safe position.

WARNING

ALL FIREARMS ARE DANGEROUS OBJECTS - PISTOLS INCLUDED.

ALWAYS CONSIDER THE PISTOL LOADED. TO RENDER IT SAFE, FIRST SET THE SAFETY ON THE "SAFE" POSITION. REMOVE THE MAGAZINE, THEN EJECT ANY REMAINING ROUND BY PULLING THE SLIDE TO THE REAR.

IT IS DANGEROUS TO ALTER OR MODIFY THIS FIREARM IN ANY WAY. ANY ALTERATIONS OR MODIFICATIONS OF THE FIRING MECHANISM MAY RESULT IN THIS FIREARM BECOMING UNSAFE, AND WILL NULLIFY ALL WARRANTIES.

USER IS ADVISED TO READ THE ENTIRE MANUAL PRIOR TO HANDLING THIS PISTOL AND OPERATING IT FOR THE FIRST TIME.

LIMITATION OF LIABILITY

The liability of I.M.I. for any and all losses and/or damage to the purchaser shall in no event exceed the purchase price of pistol. In no event shall I.M.I. be liable for incidental or consequential damage.

MAGNUM RESEARCH, INC.
7110 University Avenue N.E. • Minneapolis, MN 55432
(763) 574-1868 • FAX (763) 574-0109

ISRAEL MILITARY INDUSTRIES reserves the right to make such alterations in design, dimensions, specifications and manufacture as are deemed necessary to ensure continued improvement.